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1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(5.28 MB) Additional Information: [full citation](#)

3 High-speed distributed data handling for on-line instrumentation systems

William E. Johnston, William Greiman, Gary Hoo, Jason Lee, Brian Tierney, Craig Tull, Douglas Olson



November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: ACM Press



Full text available: pdf(438.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The advent (and promise) of shared, widely available, high-speed networks provides the potential for new approaches to the collection, organization, storage, and analysis of high-speed and high-volume data streams from high data-rate, on-line instruments. We have worked in this area for several years, have identified and addressed a variety of problems associated with this scenario, and have evolved an architecture, implementations, and a monitoring methodology that have been successful in addre ...

4 Cache memory performance in a unix enviroment



 Cedell Alexander, William Keshlear, Furrokh Cooper, Faye Briggs
June 1986 **ACM SIGARCH Computer Architecture News**, Volume 14 Issue 3
Publisher: ACM Press
Full text available:  [pdf\(2.10 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

5 Facial modeling and animation

 Jörg Haber, Demetri Terzopoulos
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available:  [pdf\(18.15 MB\)](#) Additional Information: [full citation](#), [abstract](#)


In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

6 Network performance reporting

 K. Terplan
April 1982 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the Computer Network Performance Symposium**, Volume 11 Issue 1
Publisher: ACM Press
Full text available:  [pdf\(655.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Managing networks using Network Administration Centers is increasingly considered. After introducing the information demand for operational, tactical and strategic network management the paper is dealing with the investigation of the applicability of tools and techniques for these areas. Network monitors and software problem determination tools are investigated in greater detail. Also implementation details for a multihost-multinode network including software and hardware tools combined by ...

7 A simulation model for information system design, evaluation and planning

Thomas G. DeLutis, Keith B. Johnston, James E. Rush, Patrick M.K. Wong
March 1979 **Proceedings of the 12th annual symposium on Simulation**
Publisher: IEEE Press
Full text available:  [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this research, the use of simulation as a tool in information system design, evaluation and planning is being investigated. The modeled system is the on-line, real-time Computerized Library System of OCLC, Inc. Important characteristics of the OCLC System are described to establish a framework for discussion of the modeling and simulation research which is the subject of this paper.

8 An annotated bibliography of interactive program steering

 Weiming Gu, Jeffrey Vetter, Karsten Schwan
September 1994 **ACM SIGPLAN Notices**, Volume 29 Issue 9
Publisher: ACM Press
Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

9 Wargame-based training systems

L. Robert Ogus, James R. Jancaitis, Russel E. Hauck

December 1981 **Proceedings of the 13th conference on Winter simulation - Volume 2**

Publisher: IEEE Press

Full text available:  pdf(1.09 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper introduces a candidate model for development of wargame-based training systems and describes the application of that concept during development of the Naval Tactical Game (NAVTAG) Training System. A wargame-based training system combines the inherent educational advantages of simulation and gaming with the best features of more formal or conventional methods of instruction. Research indicates that gaming simulation has the potential to afford significant advantages over conventio ...


10 Analytic performance model of the U.S. en route air traffic control computer systems



Sandra Bleistein, Shin-Sun Cho, Robert T. Goettge

August 1985 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1985 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '85**, Volume 13 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


An analytic performance modeling case study of a complex command and control computer system is presented. A queueing network model of the system was developed and validated. Features of the model found to be critical to its accuracy were detailed software models, general service time distributions, and models of transient response time behavior. Response time prediction accuracy of the model was validated to 20 percent for moderate device utilizations. The study shows that analytic techniq ...

11 LeZi-update: an information-theoretic framework for personal mobility tracking in PCS networks

Amiya Bhattacharya, Sajal K. Das

March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(262.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The complexity of the mobility tracking problem in a cellular environment has been characterized under an information-theoretic framework. Shannon's entropy measure is identified as a basis for comparing user mobility models. By building and maintaining a dictionary of individual user's *path* updates (as opposed to the widely used location updates), the proposed adaptive on-line algorithm can learn subscribers' profiles. This technique evolves out of the concepts of lossless compression. T ...

Keywords: LZ78 compression, entropy, location management, mobility model, paging, update

12 Picasso: an experiment in hypercube operating system design



D. K. Bradley, B. A.A. Nazief, D. C. Grunwald, D. A. Reed

January 1988 **Proceedings of the third conference on Hypercube concurrent computers and applications: Architecture, software, computer systems, and general issues - Volume 1**


Publisher: ACM Press

Full text available:  pdf(1.11 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Any new computer system organization raises many questions about hardware, system software, algorithms, and programming; multicomputers are no exception. The commercial emergence of hypercubes has made it possible to move many

research questions from theoretical to experimental venues. However, hardware availability does more than permit implementation of previously tested ideas. The feasibility of many application and operating system algorithms can only be determined experimentally. We be ...

13 XTREM: a power simulator for the Intel XScale® core

 Gilberto Contreras, Margaret Martonosi, Jinzhan Peng, Roy Ju, Guei-Yuan Lueh
June 2004 **ACM SIGPLAN Notices , Proceedings of the 2004 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems LCTES '04**, Volume 39 Issue 7


Publisher: ACM Press

Full text available:  [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Managing power concerns in microprocessors has become a pressing research problem across the domains of computer architecture, CAD, and compilers. As a result, several parameterized cycle-level power simulators have been introduced. While these simulators can be quite useful for microarchitectural studies, their generality limits how accurate they can be for any one chip family. Furthermore, their hardware focus means that they do not explicitly enable studying the interaction of different software ...

Keywords: Java, XORP, XScale, hardware performance counters, power measurements, power modeling

14 A radar simulation program for a 1024-processor hypercube

 J. L. Gustafson, R. E. Benner, M. P. Sears, T. D. Sullivan
August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available:  [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have developed a fast parallel version of an existing synthetic aperture radar (SAR) simulation program, SRIM. On a 1024-processor NCUBE hypercube it runs an order of magnitude faster than on a CRAY X-MP or CRAY Y-MP processor. This speed advantage is coupled with an order of magnitude advantage in machine acquisition cost. SRIM is a somewhat large (30,000 lines of Fortran 77) program designed for uniprocessors; its restructuring for a hypercube provides new lessons in the task of altering ...


15 FAST: A large scale expert system for application and system software performance tuning

 A. E. Irigon, A. H. Dragoni, T. O. Huleatt
May 1988 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1988 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '88**, Volume 16 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(499.17 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Enabling custom enhancements in digital sports broadcasts

 Richter A. Rafey, Simon Gibbs, Michael Hoch, Hubert Le Van Gong, Sidney Wang
February 2001 **Proceedings of the sixth international conference on 3D Web technology**

Publisher: ACM Press

Full text available:  [pdf\(171.48 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: VRML, applications, digital TV, graphics systems, interactive TV,

multimedia, sports broadcasting, video

17 Simulation of computers: A tutorial introduction

Paul F. Roth

August 1975 **Proceedings of the 3rd symposium on Simulation of computer systems**

Publisher: IEEE Press

Full text available:  [pdf\(328.12 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

It is only in the last six to eight years that serious, widespread application of the process of simulation has been applied to the performance analysis of computers. Although digital simulation itself is approximately thirty years old, it wasn't until 1966-67 that serious efforts were made to apply this process to a broad array of applications in computer analysis. The reasons for this are not clear. Possibly it was because the techniques of modeling computers had not sufficient ...

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(h) Phase 7 – Retirement/**Storage**. Phase 6 activities are those normal on-going

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DMA INTERFACE Stephen J. Nicolo, Aydin **Monitor Systems** ... PROCESS DATA

FLOW **TELEMETRY SYSTEM** Huang Da ...

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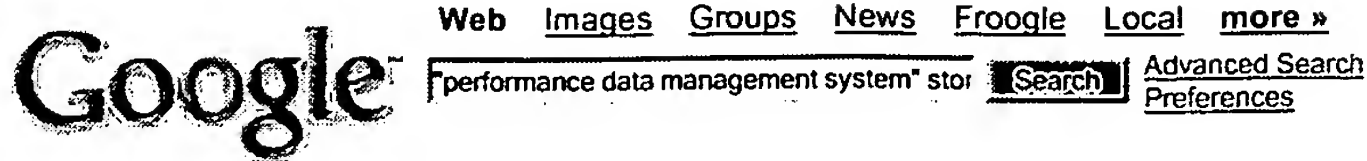
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The new 2U rackmount compatible "Relio" controller is based on Intel's 650 or ...

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In the former case, after receiving and storing the submitter's acceptance of

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